



## Level 1 Validation Certificate

This Document verifies that the Level 1 Validation process was completed. The validation session details and audit review outcomes are included here.

*This certificate is required for submission, with the Level 1 validated water audit software file, to the California Department of Water Resources.*

### **Audit Information:**

Water Supplier Name: City of Orange

PWS ID: 3010027

System Type: Potable

Audit Period: 01/2020-12/2020

Utility Representation: Tuan Cao

Validation Date: 8/25/2021

Call Time: 2PM

Sufficient Supporting Documents Provided: Yes

### **Validation Findings & Confirmation Statement:**

#### **Key Audit Metrics:**

Data Validity Score: 74

Data Validity Band (Level): Level IV

ILI: 1.69

Real Loss: 32.00 gal/conn/day

Apparent Loss: 19.88 gal/conn/day

Non-revenue water as percent of cost of operating system: 6.5

#### **Certification Statement by Validator:**

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

### **Validator Information:**

Water Audit Validator: Rachel Davis,

Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

Municipal Water District of Orange County

## Level 1 Validation – Water Supplier Confirmation

**Water Supplier Name:** City of Orange

**Water Supplier ID Number:** 3010027

**Water Audit Period:** CY 2020

### Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

The City of Orange Water Division has developed and completed 30 miles of leak detection survey in April – May 2020. The program will be continue in 2021 and will survey another 30 miles of water mains. The City also complete overhauling its existing SCADA system and replacing it with a new advanced technology SCADA system.

### Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audit and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)

Jose Diaz

Executive Position

Water Manager

Signature

J. Diaz

Date

9-10-2021